FIG. 1

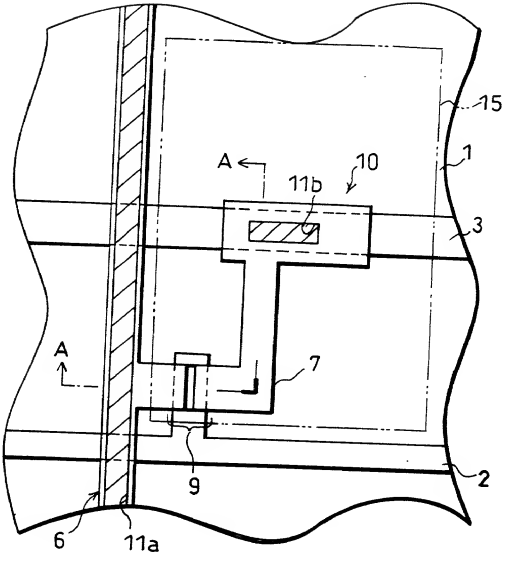


FIG. 2(a)

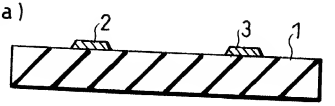


FIG. 2(b)

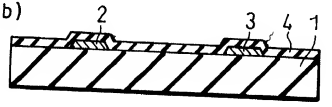


FIG. 2(c)

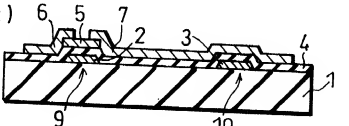


FIG. 2(d)

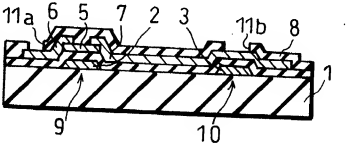


FIG. 2(e)

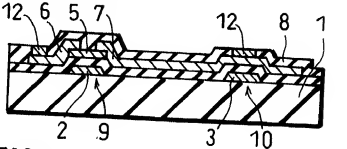


FIG. 2(f)

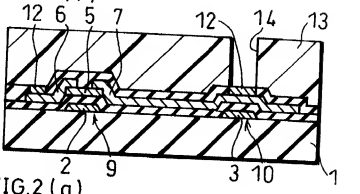


FIG. 2(g)

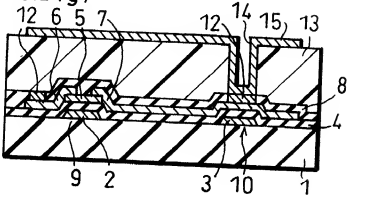


FIG. 3

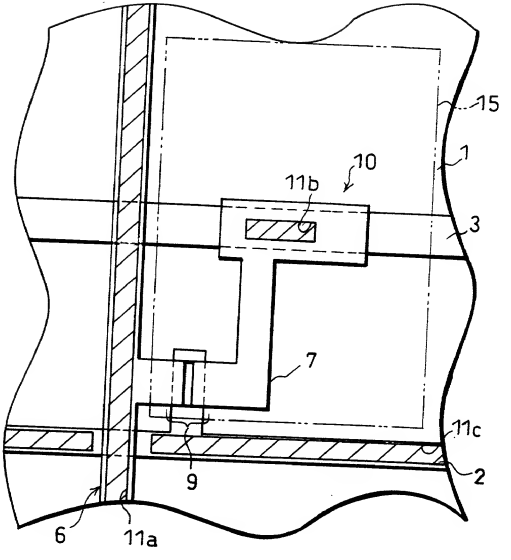


FIG. 4

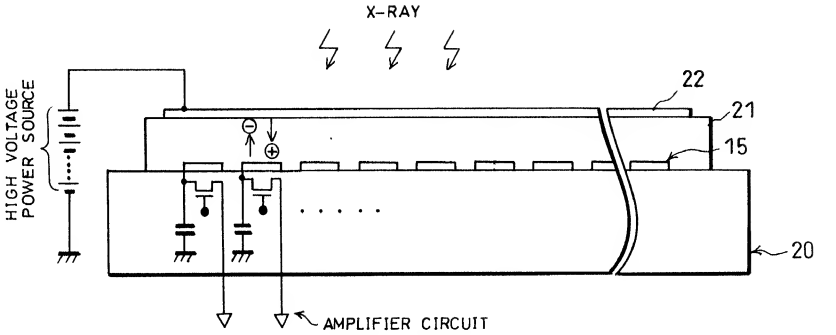

X-RAY
HIGH VOLTAGE POWER SOURCE
22
21
15
20
AMPLIFIER CIRCUIT

FIG. 5

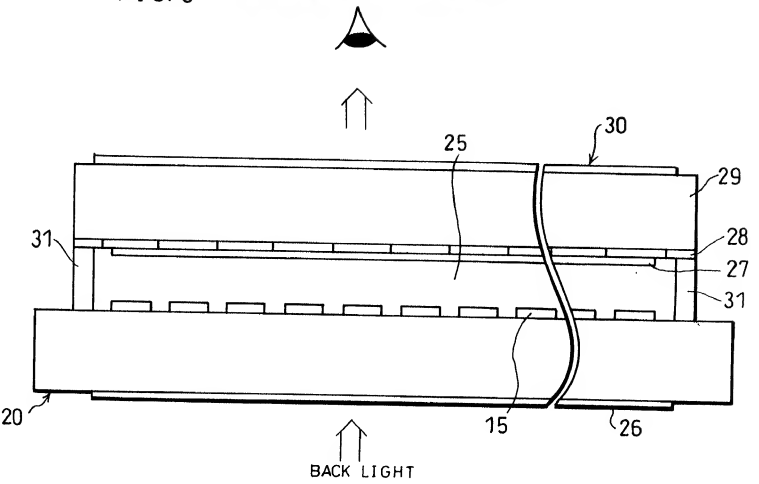


FIG.6(a)

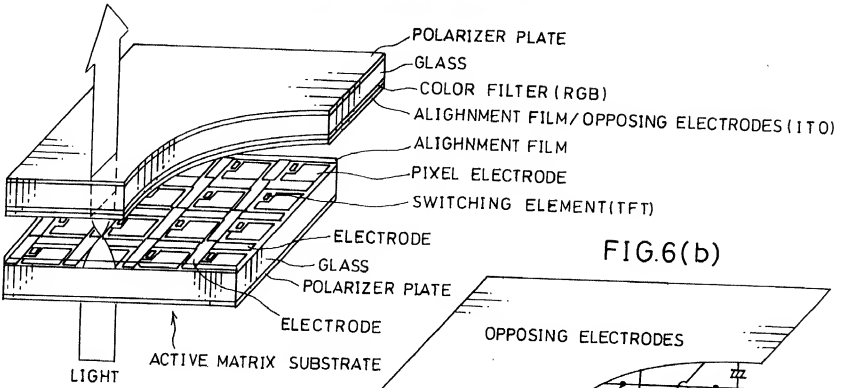

POLARIZER PLATE
GLASS
COLOR FILTER (RGB)
ALIGHNMENT FILM/OPPOSING ELECTRODES (ITO)
ALIGHNMENT FILM
PIXEL ELECTRODE
SWITCHING ELEMENT(TFT)
ELECTRODE
GLASS
POLARIZER PLATE
ELECTRODE
ACTIVE MATRIX SUBSTRATE
LIGHT

FIG.6(b)

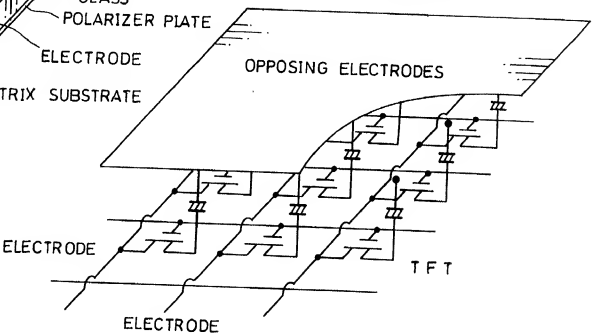
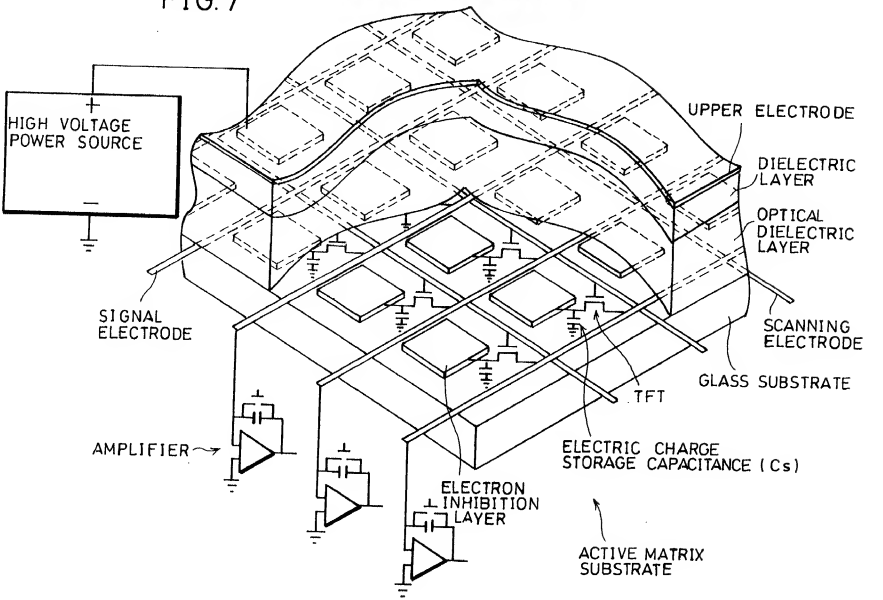

OPPOSING ELECTRODES
ELECTRODE
TFT
ELECTRODE

FIG. 7


HIGH VOLTAGE POWER SOURCE
+
−
UPPER ELECTRODE
DIELECTRIC LAYER
OPTICAL DIELECTRIC LAYER
SIGNAL ELECTRODE
SCANNING ELECTRODE
GLASS SUBSTRATE
TFT
AMPLIFIER
ELECTRIC CHARGE STORAGE CAPACITANCE (Cs)
ELECTRON INHIBITION LAYER
ACTIVE MATRIX SUBSTRATE

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on, Massachusetts 02109

Attorney's Docket No. _____

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that: My residence, post office address and citizenship are as stated below to my name. I believe I am the original, first and sole inventor (if only one name is listed at 201) below or an original, first oint inventor (if plural names are listed at 201-208 below) of the subject matter which is claimed and for which a patent is ht on the invention entitled:

ACTIVE MATRIX SUBSTRATE, METHOD OF MANUFACTURING THE SAME, AND DISPLAY AND IMAGE-CAPTURING DEVICES UTILIZING THE SAME

:h is described and claimed in:

☒ the specification attached hereto.

☐ the specification in U.S. Application Serial Number _____, filed on _____.

☐ the specification in PCT international application Number _____, filed on _____; and was amended on _____.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, mended by any amendment referred to above. I acknowledge the duty to disclose information which is material to the mination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a). I hereby claim foreign ority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed ow and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of application on which priority is claimed.

Prior Foreign/PCT Applications and Any Priority Claims Under 35 U.S.C. 119:

Application No.	Filing Date	Country	Priority Claimed Under 35 U.S.C. 119?
2000-49969	February 25, 2000	Japan	☒YES ☐NO
2000-321713	October 20, 2000	Japan	☒YES ☐NO
			☐YES ☐NO
			☐YES ☐NO
			☐YES ☐NO
			☐YES ☐NO
			☐YES ☐NO